DIESEL GENERATOR SET

Model : ATL-600PKN

Powered by PERKINS

Generator Spesification

Service	PRP	ESP
Power (kVA)	**600**	**660**
Power (kW)	480	528
Rated Speed (r.p.m)	1500	
Standard Voltage (V)	400/230V	
Rated at power factor (cos phi)	0.8	

(1) PRP (Prime Power)

According to ISO8528-1, prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

(2) ESP (Standby Power)

According to ISO 8528-1, it is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufactures. No overload capability is available

Performance Data		
Model		ATL600PKN
Engine Brand		Perkins
Engine Model		2806A-E16TAG1A
Speed control type		ECM
Phase		3
Control system		Digital
Starter motor voltage		24V
Frequency		50HZ
Enigne speed (RPM)		1500
Fuel Consumption (L/H)	100% standbay power	134
	100% prime power	123
	75% prime power	90
	50% prime power	61

Standard reference conditions

Note : standard reference condition 25C (77F) air inlet temp. 100m (328ft) A.S.L 30% relative humidity. Fuel consumption dat with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998, Class A2

Powers	ESP		PRP		Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	660	582	600	480	918
400/230	500	582	600	480	952
380/220	500	582	600	480	1002

Dimension and Wieght		
Dimension	**Open**	**Silent**
Length (L)	3340 mm	4750 mm
Width (W)	1540 mm	1900 mm
Height (H)	2125 mm	2530 mm
Net Weight	4470 KG	5794 KG
Fuel Tank (L)	820	1050

DIESEL GENERATOR SET

Engine Spesificcation : 2806A-E16TAG1A

Basic technical data	
No. Of cylinders	6
Cylinder arrange	Vertical line
Cycle	4 stroke
Induction system	Turbocharged
	Air to air charge cooling
Compression ratio	14.5 : 1
Bore	145 mm
Stroke	183 mm
Displacement	18.1 L
All rating certified to within	TBD
Speed variation at constant load	TBD

Cooling system	
Total coolant capacity with radiator	TBD
Total coolant capacity without radiator	TBD
Maximum top tank temp.	103 C
Thermostat operation range	88-98 C
Radiator face area	1.75 m
Rows and Material	2 alumunium
Pressure cap setting	70 kpa
Fan diameter	965 mm
Drive ratio	0.8 : 1
Number of blades	9

Fuel system	
Injection system	MEUI
Fuel injection pump	TBD
Fuel atomiser	TBD
Nozzel opening pressure	TBD
Fuel lift pump type	ECM
- flow / hour	TBD
- pressure	TBD
Maximum suction head	3 m
- 1500 rev/min	

Induction System	
Clean filter	3.7 kpa
Dirty filter	6.4 kpa
Air filter type	Paper element - 457 mm diameter

Lubrication system	
Total lub capacity	62 L
Sump minimum	45 L
Sump maximum	53 L
Maximum engine operating angels -front up, front down, right side or or left side	TBD
Lubricating oil pressure relief valve opens	620 kpa
at maximum no-load speed	TBD
Oil consumption at full load as a % of fuel consumption	0.1 %

Electrical System	
Type	Insulated return
Alternator voltage	24 volts
Alternator output	70 amps
Starter motor voltage	24 volts
Starter motor power	9 kw

General installation	Prime Power
Combustion air flow	34 m / min
Exhaust gas temp	568 C
Exhaust gas flow, wet	96 m / min
Enginee coolant flow	6.1l/min
Cooling fan air flow	702l/ min